



Dart Hawkesbury  
1270 Aberdeen St. Hawkesbury, ON K6A 1K7 Canada  
Tel (613) 632-5200

## Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Pas Due
PO038994	SAB002-VC	1	1	COD	MUHMWB750	UHMW .750 sheet : MATERIAL: UHMW BLACK TIVAR 1000 VIRGIN MATERIAL MANUFACTURER: POLY HI SOLDUR/QUADRANT PLASTICS THICKNESS- TOLERANCE: +0.020"/NO MINUS receive sf				80	3/26/2018	80		S049824	Stock	3/9/2018	\$ 33.13 / sf	0	
Total:										80		80							

Plex 3/9/2018 3:19 PM Dart.Dubois.Pascal

POLYMERSHAPES DISTRIBUTION CANADA INC.

BORDEREAU D'EXPÉDITION

Expédier à:

DART AEROSPACE LTD

Facturer à:

DART AEROSPACE LTD

1270 ABERDEEN STREET

1270 ABERDEEN STREET

HAWKESBURY, ON, K6A 1K7

HAWKESBURY, ON, K6A 1K7

CANADA

Canada

1 (613)

6325200

DATE:

08-MAR-18

ENTREPÔT: POLYMERSHAPES - MONTREAL QC  
Dorval, QC, H9P 2W3, CA,,

COMMANDE:

93034632

BON DE COMMANDE:

PO038994

TÉL. DE LA PERSONNE-RESSOURCE:  
0014005000120

MODALITÉS DE

PAIEMENT:

CA NET 30

MODALITÉS DE

TRANSPORT:

Collect Freight

DATE DE LA

COMMANDE:

09-FEB-18

F.A.B.

REPRÉSENTANT:

NOM POUR LIVRAISON:

41598236

N° DE CONNAISSMENT  
Journey freight

TRANSPORTEUR DE MARCHANDISES:  
CUSTOMER PICKUP

COMMENTAIRE SUR FRAIS DE TRANSPORT:

CATÉGORIE	NUMÉRO DE PIÈCE / DESCRIPTION DE L'ARTICLE	DATE	QTE	QTE	QTE NON	UDM
		D'EXPÉDITION	COMMANDEE	EXPÉDIEE	EXPÉDIEE	

1 54727104

08-MAR-2018

2

2

SH

UHMW SH 0.750 48X120 BK THK TOL +.020/-0 | TIVAR 1000

INSTRUCTIONS SPÉCIALES: PLANED BOTH SIDES, C OF C REQUIRED

Numéros de LOT:

(2 Qté )

REÇU EN BON ÉTAT

Signé:

Date:

À moins qu'il en soit convenu autrement dans un document signé par les deux parties, toute vente par Polymershapes est effectuée exclusivement aux termes des conditions de vente standard de Polymershapes, qui peuvent être obtenues, sur demande et en ligne à l'adresse [www.polymershapes.com](http://www.polymershapes.com). BIEN QUE LES RENSEIGNEMENTS, LES RECOMMANDATIONS OU LES CONSEILS FIGURANT AUX PRÉSENTES SOIENT DONNÉS DE BONNE FOI, POLYMERSHAPES NE DONNE AUCUNE GARANTIE, EXPRESSE OU IMPLICITE, QUANT AUX RÉSULTATS, À L'EFFICACITÉ OU À LA SÉCURITÉ DE TOUTE CONCEPTION CONTENANT DES PRODUITS, MATÉRIAUX, SERVICES, RECOMMANDATIONS OU CONSEILS DE POLYMERSHAPES. SAUF TEL QU'IL EST INDiqué DANS LES CONDITIONS DE VENTE STANDARD DE POLYMERSHAPES, POLYMERSHAPES ET SES REPRÉSENTANTS NE SONT EN AUCUN CAS RESPONSABLES DE TOUTE PERTE DÉCOULANT DE L'UTILISATION DE SES MATÉRIAUX, PRODUITS OU SERVICES DÉCRITS AUX PRÉSENTES

Chaque utilisateur assume l'entière responsabilité de ses décisions quant au caractère convenable des produits, des matériaux, des services, des recommandations ou des conseils pour sa propre utilisation. Chaque utilisateur doit identifier et effectuer tous les tests et analyses nécessaires pour s'assurer que ses pièces finies contenant des produits, matériaux ou services achetés de Polymershapes seront sûres et pourront être utilisées dans des conditions d'utilisation finales. Aucune disposition du présent document ou de tout autre document, ni aucune recommandation ou aucun conseil verbal, ne sera réputé modifier, faire varier, remplacer ou annuler toute disposition des conditions de vente de Polymershapes ou de la présente exclusion de responsabilité, à moins que cette modification ne soit précisément acceptée dans un écrit signé par Polymershapes. Aucun énoncé figurant aux présentes relativement à l'utilisation éventuelle ou suggérée de tout matériau, produit, service ou conception n'a pour but d'accorder, ni ne doit être interprété comme accordant, une licence sur les droits de brevet ou d'autres droits de propriété intellectuelle de Polymershapes ou de l'une de ses filiales ou d'un membre de son groupe couvrant cette utilisation ou cette conception, et ne doit pas être interprété comme une recommandation relative à l'utilisation de ce matériau, produit, service ou concept en violation d'un droit de brevet ou d'un autre droit de propriété intellectuelle.

\*\*\*Rapport de fin de\*\*\*



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# **PURCHASE ORDER** **PO038994**

**Supplier:** SAB002-VC  
Polymershapes Distribution Canada Inc.  
1665 55th Avenue  
Dorval  
QC  
H9P 2W3 Canada  
Phone: 514 422 1048  
Fax: 514 422 1055

**PO No:** PO038994

**PO Date:** 2/8/18

**Due Date:** 3/26/18

**Purchase Order**  
**Revision:**

**Revision Date:**

**Ship-To Contact:** Lavoie, Chantal  
Phone: clavoie@dartaero.com

**E-MAILED**  
FEB 08 2018

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**Via:** Ground

**Pynt Terms:** COD

**Freight Terms:**

**Special Comments:**

## Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	MUHMWB750		UHMW .750 sheet : MATERIAL: UHMW BLACK TIVAR 1000 VIRGIN MATERIAL MANUFACTURER: POLY HI SOLDUR/QUADRANT PLASTICS THICKNESS-TOLERANCE: +0.020"/NO MINUS receive sf	Firmed	3/26/18	80 sf	0 sf	80 sf	\$33.125/sf	\$2,650.00
										<b>Grand Total:</b> \$2,650.00

## Order Notes

### Procurement Quality Clauses

A005 right of entry  
A012 chemical and physical test report  
A016 personnel qualification  
A017 raw material identification (as applicable)  
A026 certification of material conformance  
A041 quality management system  
A042 dart notification by supplier  
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Plex 2/9/18 9:17 AM dart.lavoie.chantal

**Certificate of Conformance**1665 55<sup>th</sup> Avenue  
Dorval, Quebec,  
H9P 2W3**Date:** March 7/2018**Attn:** RECEIVING DEPARTMENT**Customer P.O. Number:** PO38994**To:** DART AEROSPACE LTD.**Sales Order No:** 93034632**Address:** 1270 ABERDEEN STREET  
HAWKESBURY, ON.**Manufacturer's Reference:** 0002190208**Our Reference:** MTL-106803

It is hereby certified that, to the best of Polymershapes Distribution Canada knowledge, the product information provided below conforms to the corresponding information in the possession of Polymershapes Distribution Canada with respect to such products. This certification and the sale of products are, unless otherwise agreed to in writing, subject to Polymershapes Distribution Canada standard conditions of sale. This document shall not be reproduced, except in full, without prior written approval.

Quantity	Description	Lot Number/Spec.
2 SHTS	TIVAR 1000 BLACK SHEET .750 X 48" X 120" PLANED 2 SIDES +/- .020	0006904968

**Polymershapes Canada Distribution Inc.****By:****Title:****Quality Coordinator**



**QUADRANT**

ENGINEERING PLASTIC PRODUCTS

Quadrant EPP USA, Inc.  
2120 Fairmont Avenue, P.O. Box 14235  
Reading, PA 19612-4235  
Phone 610-320-6600

**Ship to:**

Polymershapes - Dorval  
1665 - 55th Avenue

Dorval, QUE H9P 2W3  
Canada

Consignee: 0002000430

**Sold to:**

Polymershapes - Dorval  
1665, 55 Avenue

Dorval, QUE H9P 2W3  
Canada

Delivery address: 1A  
Delivery No: 9598759

**Declaration of compliance with the order according EN 10204 - 2.1**

**TIVAR 1000 PLATE BLACK**

**.75 x 48 x 120 IN**

**PLANED 2 SIDES, +.020/-0**

Item No: 03010110320

Lot: 0006904968

Ship date: 03/02/18

Original Production Lot: 0006773459

Date of MFG: 02/20/18

Qty: 2.00 PC

Supplied against purchase order number: MTL-106803

Quadrant Order No: 0002190208

Product is known as ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE with a pigment additive.

Base resin meets ASTM D4020 with a molecular weight of 3.0 to 6.2 million G/Mol.

For specific details related to regulatory compliance, see Quadrants Regulatory Letter for this material, which is available upon request.

We hereby certify that the goods described above comply with the terms of the order contract and conform to our Product Specifications. The Quality Management System of the Quadrant EPP plants in Reading, PA, Scranton, PA, Wytheville, VA, Delmont, PA and Ft. Wayne, IN are certified according to ISO 9001. The ISO Certificate is available upon request.

CERTIFIED BY: Eric Weir

FUNCTION: Product Specification & Certification Engineer

E-MAIL: eric.weir@qplas.com

DATE: 03/02/18

DIGITAL SIGNATURE

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MuH MW B. 750  
 DATE: MAR 09 2018

PO / BATCH NO.: 038994/

MATERIAL CERT REC'D: yes  
 QUANTITY RECEIVED: 80 P. 2  
 QUANTITY INSPECTED: 80 P. 2  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .790  
 THICKNESS RECEIVED: .750  
 SHEET SIZE ORDERED: 4x10  
 SHEET SIZE RECEIVED: 4x10

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	Y <input type="radio"/> N <input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>tivar 1000 plate Black</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	Y <input type="radio"/> N <input checked="" type="radio"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>Lot # 0006904968</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input type="radio"/> N <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input type="radio"/> N <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 MAR 09 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

PURCHASE MATERIAL: UHMW BLACK TIVAR 1000 VIRGIN MATERIAL  
 MANUFACTURER: POLY HI SOLIDURQUADRANT PLASTICS  
 THICKNESS - TOLERANCE: +0.030"/NO MINUS

PART NUMBER: MUHMMW C | TTT | WHERE TTT = THICKNESS IN 1/100 INCHES  
 THICK C = COLOUR (B = BLACK)  
 (W = WHITE)

EG. 1.000" UHMW BLACK TIVAR 1000 = MUHMMWB100  
 1.250" UHMW BLACK TIVAR 1000 = MUHMMWB125

MINIMUM MATERIAL PROPERTY VALUES  
 \*REFERENCE DART REPORT DR-1041

YIELD TENSILE 2900 PSI  
 ULTIMATE TENSILE 4600 PSI  
 YIELD SHEAR 2200 PSI  
 ULTIMATE SHEAR 3500 PSI  
 YIELD BEARING 2800 PSI  
 ULTIMATE BEARING 4200 PSI  
 FLEXURAL MODULUS 105000 PSI

RELEASED  
 12/10/12  
 ECU 12-672

C	INCREASED ACCURACY OF PART NUMBER THICKNESS. "TTT" WAS "TT"	AP	12.09.27
B	REFORMAT ADDED MATERIAL REQUIREMENTS FROM D2689 MANUFACTURER UPDATED (SEE PAR 11-105)	AJS	11.06.09
A	NEW ISSUE	RF	05.03.31
REV	DESCRIPTION	BY	DATE
DESIGN	RF		
DRAWN	AP		
CHECKED	q		
MFG. APPR.	N/A		
APPROVED	AP		
DE APPR.			
DATE	12.09.27		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV. C SHEET 1 OF 1 SCALE NONE	
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